

C12 Energy

- C12 Energy seeks to sell 100% of its interests in the Dickinson Heath Sand Unit in North Dakota
- Development upside includes 7+ MMSTB CO₂ project



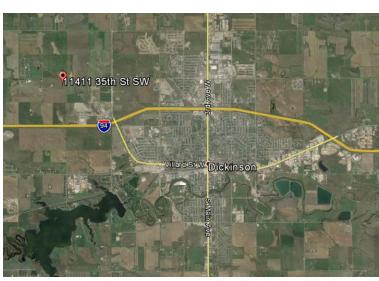
Overview of C12 DHSU Assets

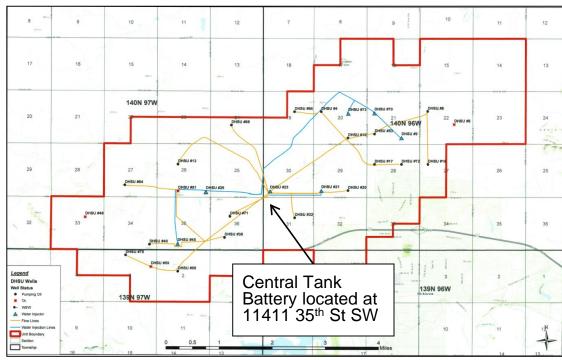
- 140+ BOPD production capability (8/8ths)
- Unitized conventional field
- Recovery to date: ~26.6 MMSTB; 43% of OOIP
- ~78% NRI and ~97% WI
- 28 wells:
 - 17 Producing
 - 5 Injection
 - 4 wells T&A'd
 - 1 source water well
 - 1 disposal well
 - 0 Shut-in for mechanical integrity (low P&A liability)
- Identified improvement opportunities
 - Lower lease operating expense through capital projects
 - Pipeline replacement and water pump upgrade
 - Artificial lift optimization
 - Water shut offs
 - Re-pressure reservoir with source water well
 - Waterflood optimization
 - CO2 EOR development
 - Estimated 7+ million barrels of CO2 incremental oil



Field Location









Dickinson Heath Sand Unit Overview

- Discovered 1958
- Field unitized in 1973
- Water flood developed in 1973 on 160 to 320 acre spacing
- Field is 8 miles long by 2.5 miles wide
- Recovery to date ~ 26.6 mmboe (43% of OOIP)
- OOIP of 61.8 million bbls (total field)
- 68 wells have been drilled into the Dickinson Heath Sand Unit
- Produces from the Tyler Sandstone
 - 7900' TVD
 - Divided into an upper "A" zone and lower "B" zone separated by a shale break
 - Main production is out of the A2 and B1 sands

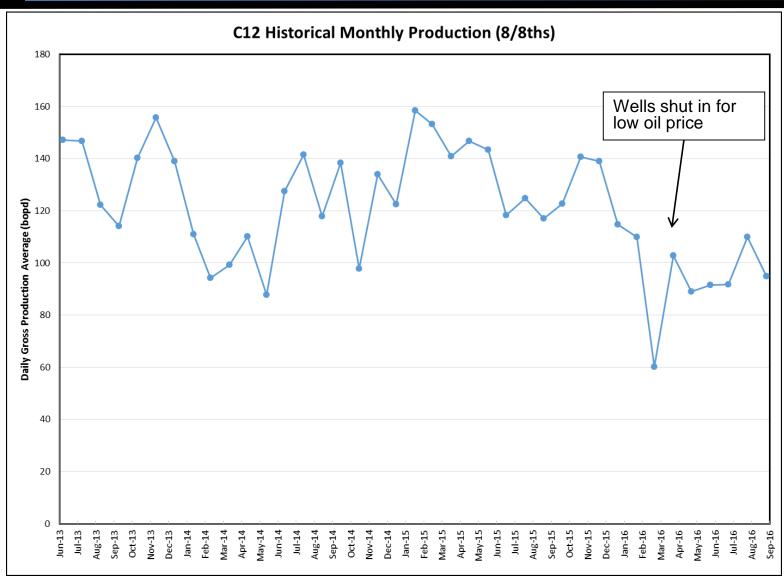
Tyler Sand Package	K Range (md)	K Avg. (md)	Φ Range (%)	Ф Avg. (%)	Net Sand Avg (ft)
A1	0.01-642	56.0	0.5-19.2	10.6	0.1
A2	0.01-1764	204.0	1.1-21.5	13.4	2.0
B1	0.01-3150	158.0	0.5-20.7	14.0	4.2
B2	0.01-545	294.0	0.8-19.6	14.9	.5
77 001 1 0 1					

K cut-off based on 0.1 md.

Φ cut-off based on 7% porosity

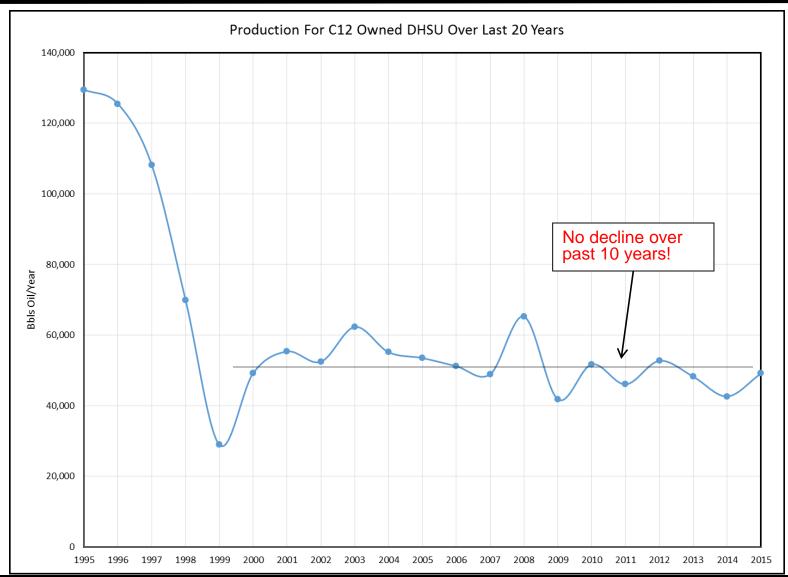


C12 Historical Monthly Production (8/8ths)





C12 DHSU Historical Yearly Production

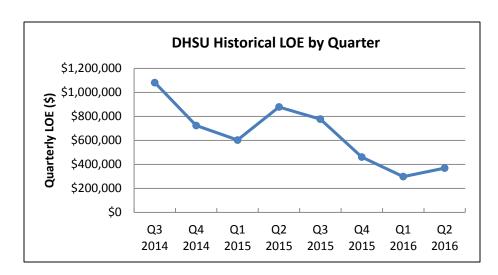


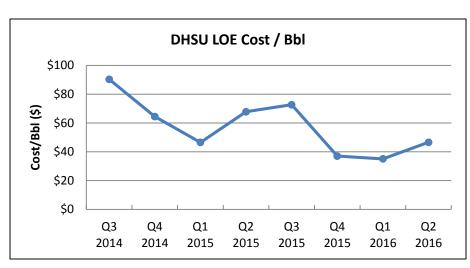


Lease Operating Expense

C12 has continued to reduced LOE from:

- Investments
 - Fixing things right the 'first time'; reduce repeat failures including:
 - Installed ~9000' of new pipeline
 - Replaced 2x 500 bbl water tanks
 - Swapping all pumps to mechanical hold down
- Renegotiated contracts >\$2000
- Moved to single chemical vendor
- Shut-in uneconomic wells, reducing chemical and utility costs
- Have identified addl. opportunities to reduce LOE and improve oil production







Field Improvement Opportunities

Replace Water Plant Pumps (\$6000/month Savings)

- Currently have 3x 300 HP pumps used to re-inject produced water back into reservoir
- Pumps are old (30+ yrs) and consume significant maintenance cost and utilities
- Estimate it would cost ~\$150,000 to replace pumps with new injection skid with 1x 150 HP pump and filtering system
- Expected LOE savings from utilities and maintenance ~ \$6000/month
- Payback in ~24 months

Increase VRR (+35 bopd)

- Field has only re-injected produced water
- Pressure has declined as a result
- C12 had source water well assigned to it in 2014
 - Costs \$5000/month to run ESP in source well
 - Additional \$3000/month to run water plant pump
- Would take 18 months at 4000 bbls/d additional injection to see a 25% increase in production
- Expected production after raising reservoir pressure to 4000 psi is 175 bopd
- Payback in ~ 2 years

Acidize (+10 bopd)

- Numerous wells not stimulated in many years
- A review of wells indicates ~4 wells are acidizing candidates
- Acid job cost per well = \$15,000
- Expected initial boost in production = 30% per well or 10 bopd total
- Payback is ~ 7 months



CO2 EOR Development Potential

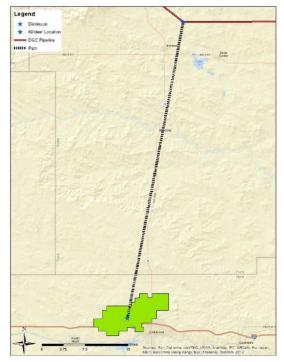
Dickinson Heath Sand Unit

Development Plan

- Obtain CO2 contract from DGC (Dickinson Gasification Company)
 - Secured CO2 supply with contract with DGC in 2016
- Build Central Processing Facility for fluid processing & recycle compression
- Build 40 mile pipeline from Killdeer to Dickinson
- Re-pressure reservoir to 3000+ psi (miscibility pressure ~ 3000 psi)
- Install new field flowlines; workover wells as needed to implement CO2 EOR flood

Reserves	7.1 MMSTB (11% RF)		
IRR	+24% at \$70/bbl WTI		
NPV	\$105 MM at \$70/bbl WTI		
Development Cost	\$244 MM (gross)		

Pipeline route from DGC CO2





Contact Information

C12 Energy LLC

1900 Wazee Street Denver, CO 80202

Craig McPherson

1(214) 557-0353 craig.mcpherson@c12energy.com

Jeff Corwith

1 (720) 708-9763 jeff.corwith@c12energy.com

Gavin Ramsay

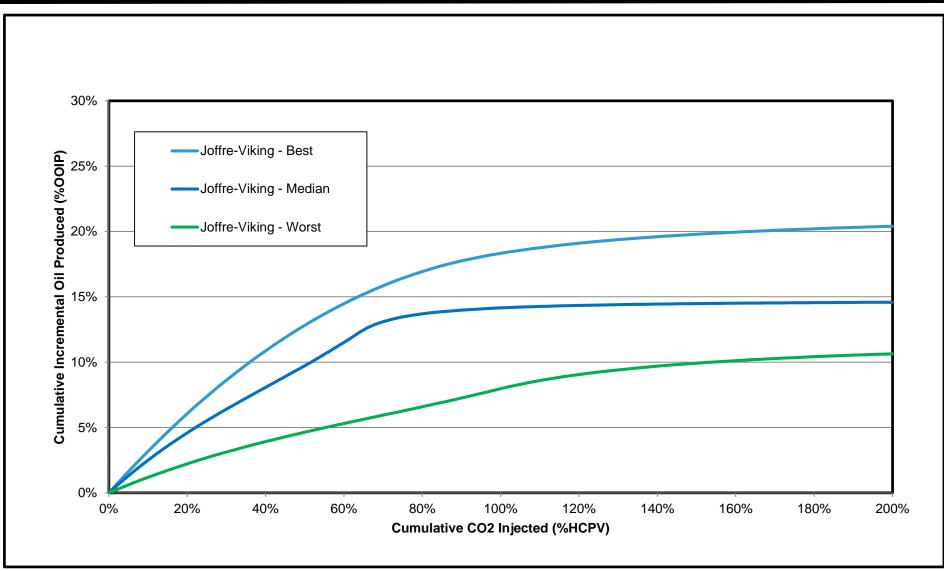
1 (303) 848-3820 gavin.ramsay@c12energy.com



11



Comparable Type Curve used for DHSU





DHSU EOR Development Plan

